

REMARKS

Claims 2, 8-12, and 17 stand objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Claim 1 stands rejected under 35 USC §102(e) as being anticipated by Hartness, U.S. patent 5,220,569. . Claim 7 stands rejected under 35 USC §102(e) as being anticipated by Christensen, U.S. patent 6,130,794.

Claims 1, 2, 8, and 17 have been amended to more clearly state the invention. Claim 7 has been cancelled. Indicated allowable claims 2 and 8 have been rewritten in independent form including all of the limitations of the base claim and any intervening claims. Dependent claims 9-12 respectively depend from indicated allowable rewritten independent claim 8. Reconsideration and allowance of independent claim 1, as amended, is respectfully requested.

Hartness, U.S. patent 5,220,569 discloses a data recovery channel for a fault tolerant data storage system. The data storage system includes a plurality of disk drives and an input interface formatting the data records for storage among the disk drives. Stored data is organized into sectors and rows of sectors, sectors including error correction codes for the sector, and rows including sectors of parity data for the sectors of the row. Upon readback, the data recovery channel preferentially operates on parity data for error correction over utilization of error syndromes generated from the error correction codes for error correction, though both remain available. Absent an indication that an error is contained in more than one sector for a row of sectors,

correction of error in the defective sector is made by use of parity information. Where error is indicated for more than one sector in a row of sectors, correction using the error syndromes is attempted, sector by sector, until the number of sectors in the row having error is reduced to one. Parity is used to correct the remaining defective sector.

Christensen, U.S. patent 6,130,794 discloses reading data from a data channel. The data channel is received by an input, and at least one data path processes the data channel to read data from the data channel. The data path is characterized by a plurality of data path parameters, and the data read may be successful or unsuccessful. A processor updates a log entry for the data if the data read was successful, wherein the log entry stores information related to the data path parameters that have produced successful data reads.

Independent claim 1, as amended, recites a method for implementing enhanced data channel performance using a read sample buffer in a direct access storage device (DASD) comprising the steps of: utilizing an analog-to-digital converter (ADC) for receiving a disk read signal and converting said disk read signal to ADC disk data samples; storing said ADC disk data samples in said read sample buffer; starting a data recovery procedure (DRP) using said stored ADC disk data samples in said read sample buffer; and error correction code (ECC) checking of said stored ADC disk data samples from said sample buffer to identify correctly detected data. Only applicant teach the method for implementing enhanced data channel performance as recited in independent claim 1, as amended. More particularly, the references of record including Hartness and Christensen do not disclose the recited steps of independent claim 1, as

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amended, of utilizing an analog-to-digital converter (ADC) for receiving a disk read signal and converting said disk read signal to ADC disk data samples; storing said ADC disk data samples in said read sample buffer; starting a data recovery procedure (DRP) using said stored ADC disk data samples in said read sample buffer; and error correction code (ECC) checking of said stored ADC disk data samples from said sample buffer to identify correctly detected data. Thus, of independent claim 1, as amended, is patentable.

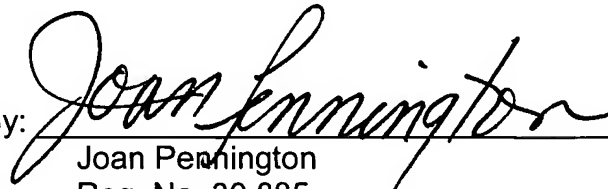
Applicants have reviewed all the art of record, and respectfully submit that the claimed invention is patentable over all the art of record, including the references not relied upon by the Examiner for the rejection of the pending claims.

It is believed that the present application is now in condition for allowance and allowance of each of the pending claims 1-2, 8-12, and 17 is respectfully requested. Prompt and favorable reconsideration is respectfully requested.

If the Examiner upon considering this amendment should find that a telephone interview would be helpful in expediting allowance of the present application, the Examiner is respectfully urged to call the applicants' attorney at the number listed below.

Respectfully submitted,

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